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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. APPLICATION NO. FILING DATE 09/539,394 **MCCARTHY** 03/31/00 J 199-1452 **EXAMINER** PM82/0917 JOHN G CHUPS AVERY R ART UNIT PAPER NUMBER CHUPS & ALBERTI P C 31313 NORTHWESTERM HIGHWAY SUITE205 3618 FARMINGTON HILLS MI 48334 **DATE MAILED:** 

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

09/17/01

## \_\_\_\_

Application No. 09/539,394

Applicant(s)

McCarthy, James Paul

Office Action Summary Examiner

**Bridget Avery** 

Art Unit 3618

The MAILING DATE of this communication appears on the cover sheet with the correspondence address	
Period for Reply	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SE THE MAILING DATE OF THIS COMMUNICATION.	
<ul> <li>Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this community</li> </ul>	CFR 1.136 (a). In no event, however, may a reply be timely filed
- If the period for reply specified above is less than thirty (30) da	ys, a reply within the statutory minimum of thirty (30) days will
be considered timely.  - If NO period for reply is specified above, the maximum statutor	y period will apply and will expire SIX (6) MONTHS from the mailing date of this
communication Failure to reply within the set or extended period for reply will,	by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
<ul> <li>Any reply received by the Office later than three months after t earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul>	he mailing date of this communication, even if timely filed, may reduce any
Status	
1) Responsive to communication(s) filed on <u>Jun 28,</u>	2001
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This a	ction is non-final.
3) Since this application is in condition for allowance closed in accordance with the practice under Ex p	e except for formal matters, prosecution as to the merits is parte Quayle, 1935 C.D. 11; 453 O.G. 213.
Disposition of Claims	
4) 💢 Claim(s) <u>1-19</u>	is/are pending in the application.
4a) Of the above, claim(s)	is/are withdrawn from consideration.
5) Claim(s)	is/are allowed.
6) 💢 Claim(s) <u>1-19</u>	is/are rejected.
7) Claim(s)	is/are objected to.
8) Claims	are subject to restriction and/or election requirement.
Application Papers	
9) $\square$ The specification is objected to by the Examiner.	
10) The drawing(s) filed on is/a	re objected to by the Examiner.
11) The proposed drawing correction filed on	is: a) $\square$ approved b) $\square$ disapproved.
12) $\square$ The oath or declaration is objected to by the Exa	miner.
Priority under 35 U.S.C. § 119	
13) $\square$ Acknowledgement is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d).
a) $\square$ All b) $\square$ Some* c) $\square$ None of:	
1. Certified copies of the priority documents h	ave been received.
2. Certified copies of the priority documents h	
3. Copies of the certified copies of the priority application from the International Bu *See the attached detailed Office action for a list of	
14) Acknowledgement is made of a claim for domest	
Attachment(s)	101 Later Street (PTO 412) Pener No. (c)
<ul> <li>15) Notice of References Cited (PTO-892)</li> <li>16) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ul>	18) Interview Summary (PTO-413) Paper No(s)  19) Notice of Informal Patent Application (PTO-152)
17) Information Disclosure Statement(s) (PTO-1449) Paper No(s).	20) Other:

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.
- 2. Claims 1 and 2 are rejected under 35 U.S.C. 102(e) as being anticipated by Fujisawa et al. (US Patent 6,175,785).

Fujisawa et al. discloses a hybrid vehicle drive system including a generator (5) operatively connected to the engine (1) to produce a reaction torque, effective to control a first speed; a clutch (2) assembly selectively coupled to the generator (5) to selectively augment the reaction torque, thereby cooperating with the generator (5) to control the first speed; and a controller (10) which is coupled to the generator (5), engine (1), and to the clutch assembly (2), the controller (10) being effective to determine the amount of reaction torque required to control the first speed,

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based upon the amount of reaction torque, to cause the generator (5) and clutch assembly (2) to cooperatively provide the reaction torque. See column 1, lines 36-40 and column 2, lines 36-51.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujisawa et al. ('785) in view of Sumi (US Patent 6,054,776).

Fujisawa et al. discloses the feature described above.

Fujisawa et al. is silent regarding the type of clutch used and fails to show a valve assembly.

Sumi discloses a hybrid electric vehicle including an engine (1) having an output shaft; a motor/generator (2) coupled, by a planetary gear set (35), to the engine (1) which produces a reaction torque; a controller; and, a clutch assembly (36) coupled to the generator (2); the clutch (36) is coupled to a source of pressurized fluid by an actuatable valve assembly (36a) and the controller is effective to actuate the valve assembly.

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Based on the teachings of Sumi, it would have been obvious to one having ordinary skill in the art, at the time of the applicant's invention to modify the system of Fujisawa et al. to include a clutch assembly coupled to a source of pressurized fluid and a valve assembly to provide a conventional hydraulically operated clutch assembly. With respect to claim 5, the provision of a planetary gear set coupling a generator to an engine is conventional in the art and would have been obvious to one having ordinary skill in the art. With respect to claim 8, motor/generators are conventionally designed to include a stator and rotor assembly. With respect to claims 14-19, the method for controlling the speed of an engine, which includes selectively activating the generator to produce a negative torque and selectively and frictionally engaging a rotor assembly to lower the speed of the engine is obvious in view of Fujisawa et al. and Sumi.

#### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Tsuzuki et al. shows a control system for vehicular drive unit.

6. Any inquiry concerning this communication should be directed to Bridget Avery at

telephone number (703) 308-2086.

September 10, 2001